

MAJOR SOURCE OPERATING PERMIT

Permittee: **Monarch Ceramic Tile, Inc.**
Facility Name: **Monarch Ceramic Tile, Inc.**
Facility/Permit No.: 706-0004
Location: Florence, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

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General Permit Provisos

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p> <p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.02(6)</p> <p>Rule 335-3-16-.12(2)</p> <p>Rule 335-3-16-.05(e)</p> <p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p> <p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p> <p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p> <p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p> <p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	<p>Rule 335-3-16-.05(h)</p> <p>Rule 335-3-16-.05(i)</p> <p>Rule 335-3-16-.05(j)</p> <p>Rule 335-3-16-.05(k)</p> <p>Rule 335-3-16-.07(a)</p>

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<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	<p>Rule 335-3-16-.07(b)</p>
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>Rule 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually within 60 days after the anniversary of the effective date of this permit.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; 	<p>Rule 335-3-16-.07(e)</p>

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<p>(2) The compliance status;</p> <p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="padding-left: 40px;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="padding-left: 80px;">and to:</p> <p style="padding-left: 40px;">Air Enforcement and Toxics Branch EPA Region 4 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; 	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</p> <p>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</p> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p>	<p>Rule 335-3-4-.02</p>

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<p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <ul style="list-style-type: none"> (1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (3) By paving; (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; 	<p>Rule 335-3-16-.05(c)2</p>

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<p>(5) The results of all analyses; and</p> <p>(6) The operating conditions that existed at the time of sampling or measurement.</p> <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.</p>	
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working day of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>Rule 335-3-16-.05(c)3.</p>
<p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p>

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<p>(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p> <p>(2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).</p> <p>(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>Rule 335-3-1-.04</p> <p>Rule 335-3-1-.04</p>
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>

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<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	<p>40 CFR 82</p>
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p>	<p>40 CFR Part 68</p>
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>

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28. <u>Circumvention</u>	
<p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>Rule 335-3-1-.10</p>
29. <u>Visible Emissions</u>	
<p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>Rule 335-3-4-.01(1)</p>
30. <u>Fuel-Burning Equipment</u>	
<p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p>	<p>Rule 335-3-4-.03</p>
<p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>Rule 335-3-5-.01</p>
31. <u>Process Industries – General</u>	
<p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
32. <u>Averaging Time for Emission Limits</u>	
<p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>

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<p>33. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) Operation of Approved Monitoring</p> <p>(1) <i>Commencement of operation.</i> The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(2) <i>Proper maintenance.</i> At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p> <p>(3) <i>Continued operation.</i> Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p>	<p>40 CFR 64</p> <p>40 CFR 64.7</p>

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<p>(4) <i>Response to excursions or exceedances.</i> (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.</p> <p>(5) <i>Documentation of need for improved monitoring.</i> After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.</p>	

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<p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.</p> <p>(2) Elements of a QIP:</p> <ul style="list-style-type: none"> a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection. b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate: <ul style="list-style-type: none"> i. Improved preventive maintenance practices. ii. Process operation changes. iii. Appropriate improvements to control methods. iv. Other steps appropriate to correct control performance. v. More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above). <p>(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.</p>	<p>40 CFR 64.8</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <ul style="list-style-type: none"> a. Failed to address the cause of the control device performance problems; or b. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. <p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.</p>	
<p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) <i>General reporting requirements.</i></p> <ul style="list-style-type: none"> a. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3. b. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable: <ul style="list-style-type: none"> i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; 	<p>40 CFR 64.9</p>

General Permit Provisos

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<p>ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>iii. A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p> <p>(2) <i>General recordkeeping requirements.</i></p> <p>a. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).</p> <p>b. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.</p> <p>(d) Savings Provisions</p> <p>Nothing in this part shall:</p>	<p>40 CFR 64.10</p>

General Permit Provisos

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<p>(1) Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p>(2) Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p>(3) Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	
<p>34. <u>Emissions Inventory Reporting Requirements</u></p> <p>In order to meet the statewide emissions inventory reporting requirements under 40 CFR 51, Appendix A, the permittee shall comply with the reporting requirements under ADEM Admin. Code r. 335-3-1-.15.</p>	<p>Rule 335-3-1-.15</p>

Summary Page for Nonmetallic Mineral Processing

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EF 13 EF 14 EF 15 EF 18 EF 19 EF 20 EF 21 EF 22 EF 23 EF 24 EF 25	Raw Material Receiving Area 1 & 7 Feed Hoppers (EF 13-15 & S-1) Raw Material Receiving and Storage Area 2 (EF 21-25) Raw Material Conveying (EF 13-15, 18-20, & S-1) (2) Continuous Ball Mills (EF 18-20 & S-1)	PM	The lesser of 5.17 lbs/hr combined (EF 13-15 and 18-25) or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
EF 13 EF 14 EF 15 EF 18 EF 19 EF 20 EF 21 EF 22 EF 23 EF 24 EF 25	Raw Material Receiving Area 1 & 5 Feed Hoppers (EF 13-15 & S-1) Raw Material Receiving and Storage Area 2 (EF 21-25) Raw Material Conveying (EF 13-15, 18-20, & S-1) (2) Continuous Ball Mills (EF 18-20 & S-1)	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4-.01(1)
S-1	Raw Material Receiving Area 1 & 7 Feed Hoppers (EF 13-15 & S-1) Raw Material Conveying (EF 13-15, 18-20, & S-1) (2) Continuous Ball Mills (EF 18-20 & S-1)	PM	The lesser of 0.45 lbs/hr or 0.05 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.672(a) Subpart OOO
S-1	Raw Material Receiving Area 1 & 7 Feed Hoppers (EF 13-15 & S-1) Raw Material Conveying (EF 13-15, 18-20, & S-1) (2) Continuous Ball Mills (EF 18-20 & S-1)	Opacity	Common Baghouse (S- 1) shall not exhibit emissions with opacity greater than 7%	40 CFR 60.672(a)

***The Ball Mills and Raw Material Conveying are not subject to 40 CFR 60 Subpart OOO. However, since the baghouse (S-1) that controls emissions from the nonmetallic mineral processing is shared with other processes that are subject to Subpart OOO, the emissions from the baghouse (S-1) will be limited to the NSPS standard while the NSPS sources are operating.**

Provisos for Nonmetallic Mineral Processing

Federally Enforceable Provisos	Regulations
<p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4, "Control of Particulate Emissions ". 2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits". 3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]". 	<p>Rule 335-3-4</p> <p>Rule 335-3-16-.03</p> <p>Rule 335-3-14-.04</p>
<p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter (PM) emissions from these units shall not exceed the limitations as specified in General Proviso No. 31. 2. The combined particulate matter emission rate from the Roof Vents (EF 13-15 and 18-25) shall not exceed 5.17. 3. Particulate matter emissions from common Baghouse (S-1) shall not exceed the lesser of 0.45 lbs/hr or 0.05 grams per dry standard cubic meter. 4. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29. 5. Common Baghouse (S-1) shall not exhibit emissions of opacity greater than 7%. 	<p>Rule 335-3-4-.04(1)</p> <p>Rule 335-3-14-.04</p> <p>Rule 335-3-14-.04 40 CFR 60.672(a)</p> <p>Rule 335-3-4-.01(1)</p> <p>40 CFR 60.672(a)</p>
<p><u>Compliance and Performance Test Methods and Procedures</u></p> <ol style="list-style-type: none"> 1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions. 2. EPA Reference Method 22 of Appendix A of CFR; Title 40, Part 60 [Latest Edition] or alternate approved by the Department will be used for any testing conducted to determine compliance with fugitive emissions. 	<p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p>

Federally Enforceable Provisos	Regulations
3. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stack and roof vents associated with these units. If any visible emissions are noted, maintenance inspections and/or corrective action to reduce the visible emissions must be taken within two (2) hours.	Rule 335-3-16-.05(c)
2. After any corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of monthly and rolling 12-month rolling total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.	Rule 335-3-16-.05(c)
2. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c)
3. The Permittee shall submit a written report of exceedances of the stack opacity to the Department at least semi-annually.	Rule 335-3-16-.05(c)
4. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request.	Rule 335-3-16-.05(c)

Summary Page for Spray Drying

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
SD-1	Spray Dryer 1 with Wet Scrubber	PM	The lesser of 1.84 lbs/hr or 0.057 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.732(a) Subpart UUU
SD-1	Spray Dryer 1 with Wet Scrubber	CO	1.99 lbs/hr	ADEM Admin. Code R. 335-3-14-.04
SD-1	Spray Dryer 1 with Wet Scrubber	NO _x	2.37 lbs/hr	ADEM Admin. Code R. 335-3-14-.04
SD-1	Spray Dryer 1 with Wet Scrubber	SO ₂	N/A	N/A
SD-1	Spray Dryer 1 with Wet Scrubber	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
SD-2	Spray Dryer 2 with Dust Collector	PM	The lesser of 1.36 lbs/hr or 0.057 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.732(a) Subpart UUU
SD-2	Spray Dryer 2 with Dust Collector	CO	1.99 lbs/hr	ADEM Admin. Code R. 335-3-14-.04
SD-2	Spray Dryer 2 with Dust Collector	NO _x	2.37 lbs/hr	ADEM Admin. Code R. 335-3-14-.04
SD-2	Spray Dryer 2 with Dust Collector	SO ₂	N/A	N/A
SD-2	Spray Dryer 2 with Dust Collector	Opacity	10%	40 CFR 60.732(b) Subpart UUU

Provisos for Spray Drying

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions".	Rule 335-3-4
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
4. These sources are subject to the applicable requirements of 40 CFR 60 Subpart UUU and 40 CFR 60 Subpart A.	40 CFR 60 Subpart UUU & Subpart A
5. These units are subject to 40 CFR 64, "Compliance Assurance Monitoring", to include General Permit Proviso No. 33.	40 CFR Part Part 64
<u>Emission Standards</u>	
1. Particulate matter emissions from Spray Dryer 1 with Wet Scrubber (SD-1) shall not exceed the lesser of 1.84 lbs/hr or 0.057 grams per dry standard cubic meter (0.025 gr/dscf).	Rule 335-3-14-.04 40 CFR 60.732(a)
2. Particulate matter emissions from Spray Dryer 2 with Dust Collector (SD-2) shall not exceed the lesser of 1.36 lbs/hr or 0.057 grams per dry standard cubic meter (0.025 gr/dscf).	Rule 335-3-14-.04 40 CFR 60.732(a)
3. The Spray Dryer with Wet Scrubber (SD-1) shall comply with the opacity limits in General Proviso 29.	Rule 335-3-4-.01(1)
4. The emissions from Spray Dryer 2 with Dust Collector (SD-2) shall not exceed opacity greater than 10%.	40 CFR 60.732(b) Subpart UUU
5. Each spray dryer shall operate a maximum of 8,520 hours in any consecutive 12-month period.	Rule 335-3-14-.04
6. The CO emission rate from Spray Dryers 1& 2 (SD-1 & SD-2) shall not exceed 1.99 lbs/hr each.	Rule 335-3-14-.04
7. The NO _x emission rate from Spray Dryers 1& 2 (SD-1 & SD-2) shall not exceed 2.37 lbs/hr each.	Rule 335-3-14-.04

Federally Enforceable Provisos	Regulations
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
3. EPA Reference Method 7 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) shall be used in the determination of nitrogen oxide emissions.	Rule 335-3-1-.05
4. EPA Reference Method 10 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) shall be used in the determination of carbon monoxide emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. Emission monitoring requirements under 40 CFR 64, "Compliance Assurance Monitoring", can be found in the Appendix on page 60.	40 CFR Part 64
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of monthly and rolling 12-month rolling total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.	Rule 335-3-16-.05(c)
2. Records of observation date, observation time, emission point designation, emission point operation mode, name of the observer, expiration date of the observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	40 CFR Part 64
3. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. The Method 9 observation shall be conducted for a minimum of twelve (12) minutes. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	40 CFR Part 64

Federally Enforceable Provisos	Regulations
<p>4. Records of observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed pressure drop (ΔP), and any corrective actions taken during each pressure drop (ΔP) observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>40 CFR Part 64</p>
<p>5. A semi-annual monitoring report shall be submitted to the Department within sixty (60) days of the end of each semi-annual reporting period as determined by the anniversary dates of the permits. This report shall include summary information on the number, duration, and cause (including unknown cause, if applicable) of excursions or exceedances and the corrective actions taken.</p>	<p>Rule 335-3-16-.05(c)</p> <p>40 CFR Part 64</p>

Summary Page for Tile Body Storage and Conveying

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
S-1	Conveying System 1 (S-1, EF 18, 19, & 20) Conveying System 3 & 6 (S-1, & S-6 EF 18, 19, & 20)	PM	The lesser of 0.45 lbs/hr each or 0.05 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.672(a) Subpart OOO
S-4	Conveying System 2 (S-4, EF 18, 19, & 20)	PM	The lesser of 0.46 lbs/hr or 0.05 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.672(a) Subpart OOO
S-6	Conveying System 3 & 6 (S-1, & S-6 EF 18, 19, & 20) Conveying System 5 & 7 (S-6 EF 18, 19, & 20)	PM	The lesser of 0.27 lbs/hr each or 0.05 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.672(a) Subpart OOO
EF 18 EF 19 EF 20	Conveying System 1 (S-1, EF 18, 19, & 20) Conveying System 2 (S-4, EF 18, 19, & 20) Conveying System 3 & 6 (S-1 & S-6, EF 18, 19, & 20) Conveying System 5 & 7 (S-6 EF 18, 19, & 20)	PM	The lesser of 5.17 lbs/hr combined (EF 13-15 and 18-25) or 0.05 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.672(a) Subpart OOO
S-1 S-4 S-6 EF 18 EF 19 EF 20	Conveying System 1 (S-1, EF 18, 19, & 20) Conveying System 2 (S-4, EF 18, 19, & 20) Conveying System 3 & 6 (S-1, & S-6 EF 18, 19, & 20) Conveying System 5 & 7 (S-6 EF 18, 19, & 20)	Opacity	Common Baghouses (S-1, S-4, & S-6) and Roof Vents (EF 18-20) shall not exhibit emissions with opacity greater than 7% Fugitive emissions from building openings must not exceed 7%	40 CFR 60.672(a) Subpart OOO 40 CFR 60.672(e)(2) Subpart OOO 40 CFR 60.672(e)(1) Subpart OOO

Provisos for Tile Body Storage and Conveying

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions".	335-3-4
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
4. These sources are subject to the applicable requirements of 40 CFR 60 Subpart OOO.	40 CFR 60 Subpart OOO
<u>Emission Standards</u>	
1. The combined particulate matter emission rate from the Roof Vents (EF 13-15 and 18-25) shall not exceed the lesser of 5.17 lbs/hr or 0.05 grams per dry standard cubic meter.	Rule 335-3-14-.04 40 CFR 60.672(e)(2)
2. Particulate matter emission rates from common Baghouses (S-1) shall not exceed the lesser of 0.45 lbs/hr each or 0.05 grams per dry standard cubic meter.	Rule 335-3-14-.04 40 CFR 60.672(a)
3. Particulate matter emission rates from common Baghouse (S-S-4) shall not exceed the lesser of 0.46 lbs/hr each or 0.05 grams per dry standard cubic meter.	Rule 335-3-14-.04 40 CFR 60.672(a)
4. Particulate matter emission rate from common Baghouse (S-6) shall not exceed the lesser of 0.27 lbs/hr or 0.05 grams per dry standard cubic meter.	Rule 335-3-14-.04 40 CFR 60.672(a)
5. This system shall operate a maximum of 8,520 hours in any consecutive 12-month period	Rule 335-3-14-.04
6. Common Baghouse (S-1, S-4 and S-6) and Roof Vents (EF 13-15 and 18-25) shall not exhibit emissions of opacity greater than 7%.	40 CFR 60.672(a) 40 CFR 60.672(e)(2)
7. Fugitive emissions from building openings shall not exhibit emissions of opacity greater than 7%.	40 CFR 60.672(e)(1)

Federally Enforceable Provisos	Regulations
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 22 of Appendix A of CFR; Title 40, Part 60 [Latest Edition] or alternate approved by the Department will be used for any testing conducted to determine compliance with fugitive emissions.	Rule 335-3-1-.05
3. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stack and roof vents associated with these units. If any visible emissions are noted, maintenance inspections and/or corrective action to reduce the visible emissions must be taken within two (2) hours.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of monthly and rolling 12-month total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records	Rule 335-3-16-.05(c)
2. Source observations, corrective action and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c)
4. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	Rule 335-3-16-.05(c)
5. The Permittee shall submit a written report of exceedances of the stack opacity to the Department semi-annually.	Rule 335-3-16-.05(c)

Summary Page for the Colorization Process

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
S-6	Conveyor System 4, (1) Prill Surge Hopper, (2) Dye Storage Silos, and (1) Pneumatic Mixer	PM	The lesser of 0.27 lbs/hr or 0.05 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.672(a) Subpart OOO
S-6	Conveyor System 4, (1) Prill Surge Hopper, (2) Dye Storage Silos, and (1) Pneumatic Mixer	Opacity	Common Baghouse (S-6) shall not exhibit emissions with opacity greater than 7% Fugitive emissions from building openings must not exceed 7%	40 CFR 60.672(a) Subpart OOO 40 CFR 60.672(e)(1) Subpart OOO

Provisos for the Colorization Process

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions".	335-3-4
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
1. The surge hopper and conveyor 4 are subject to the applicable requirements of 40 CFR 60 Subpart OOO and 40 CFR 60 Subpart A.	40 CFR 60 Subpart OOO
<u>Emission Standards</u>	
1. Particulate matter emissions from common Baghouse (S-6) shall not exceed the lesser of 0.27 lbs/hr or 0.05 grams per dry standard cubic meter.	Rule 335-3-14-.04 40 CFR 60.672(a)
2. This system shall operate a maximum of 8,520 hours in any consecutive 12-month period.	Rule 335-3-14-.04
3. Common Baghouse (S-6) shall not exhibit emissions of opacity greater than 7%.	40 CFR 60.672(a)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stacks associated with these units. If any visible emissions are noted, maintenance inspections and/or corrective action to reduce the visible emissions must be taken within two (2) hours.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of monthly and rolling 12-month total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.	Rule 335-3-16-.05(c)
2. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c)
3. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	Rule 335-3-16-.05(c)
4. The Permittee shall submit a written report of exceedances of the stack opacity to the Department at least semi-annually.	Rule 335-3-16-.05(c)

Summary Page for Tile Pressing

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
S-2	Tile Presses 5 & 6	PM	The lesser of 1.91 lbs/hr or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
S-2	Tile Presses 5 & 6	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4-.01(1)
S-6	Tile Presses 1, 2, 3 & 4	PM	The lesser of 0.27 lbs/hr or 0.05 g/dscm	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.672(a) Subpart OOO
S-6	Tile Presses 1, 2, 3, & 4	Opacity	Common Baghouses (S-2 and S-6) shall not exhibit emissions with opacity greater than 7%	40 CFR 60.672(a) Subpart OOO

Provisos for Tile Pressing

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions".	Rule 335-3-4
3. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
4. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
5. The surge hopper and conveyor 4 (S-6) associated with the presses are subject to the applicable requirements of 40 CFR 60 Subpart OOO and 40 CFR 60 Subpart A.	40 CFR 60 Subpart OOO
<u>Emission Standards</u>	
1. These units shall not emit particulate of an opacity greater than that allowed by General Proviso 29.	Rule 335-3-4-.01(1)
2. Particulate matter emissions from common Baghouse (S-2) shall not exceed the lesser of 1.91 lbs/hr or the allowable set by ADEM Admin. Code r. 335-3-4-.04(1), "Process Weight".	Rule 335-3-14-.04 Rule 335-3-4-.04
3. Particulate matter emissions from common Baghouse (S-6) shall not exceed the lesser of 0.27 lbs/hr or 0.05 grams per dry standard cubic meter.	Rule 335-3-14-.04 40 CFR 60.672(a)
4. This system shall operate a maximum of 8,520 hours in any consecutive 12-month period.	Rule 335-3-14-.04
5. Common Baghouse (S-6) shall not exhibit emissions of opacity greater than 7%.	40 CFR 60.672(a)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stacks associated with common Baghouses (S-2 & S-6). If any visible emissions are noted, maintenance inspections and/or corrective action to reduce the visible emissions must be taken within two (2) hours.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of monthly and rolling 12-month total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.	Rule 335-3-16-.05(c)
2. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c)
3. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	Rule 335-3-16-.05(c)
4. The Permittee shall submit a written report of exceedances of the stack opacity to the Department at least semi-annually.	Rule 335-3-16-.05(c)

Summary Page for Tile Drying

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
D-1 D-2	Press Dryer 1 & 2	PM	The lesser of 0.75 lb/hr or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
D-1 D-2	Press Dryer 1 & 2	CO	5.41 lbs/hr	ADEM Admin. Code R. 335-3-14-.04
D-1 D-2	Press Dryer 1 & 2	NOx	0.50 lbs/hr	ADEM Admin. Code R. 335-3-14-.04
D-3 D-4 D-5	Press Dryers 3, 4, & 5	PM	The lesser of 0.56 lbs/hr, each or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
D-3 D-4 D-5	Press Dryers 3, 4, & 5	CO	4.03 lbs/hr, each	ADEM Admin. Code R. 335-3-14-.04
D-3 D-4 D-5	Press Dryers 3, 4, & 5	NOx	0.38 lbs/hr, each	ADEM Admin. Code R. 335-3-14-.04
D-1 D-2 D-3 D-4 D-5	Press Dryers 1, 2, 3, 4, & 5	SO2	N/A	N/A
D-1 D-2 D-3 D-4 D-5	Press Dryers 1, 2, 3, 4, & 5	VOC	N/A	N/A
D-1 D-2 D-3 D-4 D-5	Press Dryers 1, 2, 3, 4, & 5	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)

Provisos for Tile Drying

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions".	Rule 335-3-4
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
<u>Emission Standards</u>	
2. These units shall not emit particulate of an opacity greater than that allowed by General Proviso 29.	Rule 335-3-4-.01(1)
3. Particulate matter emissions from Dryer 1 & 2 (D-1, D-2) shall not exceed the lesser of 0.75 lb/hr or the allowable set by 335-3-4-.04, "Process Weight".	Rule 335-3-4-.04 Rule 335-3-14-.04
4. Particulate matter emissions from Dryer 3, 4, & 5 (D-3, D-4, D-5) shall not exceed the lesser of 0.56 lbs/hr each or the allowable set by 335-3-4-.04, "Process Weight".	Rule 335-3-4-.04 Rule 335-3-14-.04
5. Carbon Monoxide emissions from Dryer 1 & 2 (D-1, D-2) shall not exceed 5.41 lbs/hr.	Rule 335-3-14-.04
6. Carbon Monoxide emissions from Dryer 3, 4, & 5 (D-3, D-4, D-5) shall not exceed 4.03 lbs/hr each.	Rule 335-3-14-.04
7. Nitrogen Oxide emissions from Dryer 1 & 2 (D-1, D-2) shall not exceed 0.50 lbs/hr.	Rule 335-3-14-.04
8. Nitrogen Oxide emissions from Dryer 3, 4, & 5 (D-3, D-4, D-5) shall not exceed 0.38 lbs/hr each.	Rule 335-3-14-.04
9. Tile production shall be limited to 8,520 hours in any consecutive 12-month period. The press dryers may operate 8,760 hours per year.	Rule 335-3-14-.04

Federally Enforceable Provisos	Regulations
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
3. EPA Reference Method 7 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) shall be used in the determination of nitrogen oxide emissions.	Rule 335-3-1-.05
4. EPA Reference Method 10 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) shall be used in the determination of carbon monoxide emissions.	Rule 335-3-1-.05
5. EPA Reference Method 22 of Appendix A of CFR; Title 40, Part 60 [Latest Edition] or alternate approved by the Department will be used for any testing conducted to determine compliance with fugitive emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. An observation of each emission point associated with these sources (D-1, 2, 3, & 4) will be accomplished at least weekly. If visible emissions are noted during the above-referenced visual checks, corrective action shall be initiated within two (2) hours to reduce the emissions.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of monthly and rolling 12-month total hours of production shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.	Rule 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
2. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c)
3. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	Rule 335-3-16-.05(c)
4. The Permittee shall submit a written report of exceedances of the stack opacity to the Department at least semi-annually.	Rule 335-3-16-.05(c)

Summary Page for Glaze Preparation

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
S-4	Glaze Preparation	PM	The lesser of 0.46 lbs/hr or 0.05 g/dscm*	ADEM Admin. Code R. 335-3-14-.04 40 CFR 60.672(a) Subpart OOO
S-4	Glaze Preparation	Opacity	Common Baghouse (S-4) shall not exhibit emissions with opacity greater than 7%	40 CFR 60.672(a) Subpart OOO

***The Glaze Ball Mills are not subject to 40 CFR 60 Subpart OOO. However, since the baghouse (S-4) that controls emissions from the glaze preparation is shared with other processes that are subject to Subpart OOO, the emissions from the baghouse (S-4) will be limited to the NSPS standard while the NSPS sources are operating.**

Provisos for Glaze Preparation

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions".	Rule 335-3-4
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
<u>Emission Standards</u>	
1. Common Baghouse (S-4) shall not exhibit emissions of opacity greater than 7%.	40 CFR 60.672(a)
2. Particulate matter emissions from common Baghouse (S-4) shall not exceed the lesser of 0.46 lbs/hr or 0.05 grams per dry standard cubic meter.	Rule 335-3-14-.04 40 CFR 60.672(a)
3. This system shall operate a maximum of 8,520 hours in any consecutive 12-month period.	Rule 335-3-14-.04
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stack associated with Glaze Preparation (S-4). If any visible emissions are noted, maintenance inspections and/or corrective action to reduce the visible emissions must be taken within two (2) hours.	Rule 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
<p>2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.</p>	<p>Rule 335-3-16-.05(c)</p>
<p><u>Recordkeeping and Reporting Requirements</u></p>	
<p>1. Records of monthly and rolling 12-month total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>2. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>3. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>4. The Permittee shall submit a written report of exceedances of the stack opacity to the Department semi-annually.</p>	<p>Rule 335-3-16-.05(c)</p>

Summary Page for Glazing Operations

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
S-3	Glaze lines 1 and 2	PM	The lesser of 0.20 lbs/hr or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
S-3	Glaze lines 1 and 2	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4-.01(1)
S-4	Glaze lines 3 and 4	PM	The lesser of 0.46 lbs/hr or 0.05 g/dscm*	ADEM Admin. Code R. 335-3-14-.04
S-4	Glaze lines 3 and 4	Opacity	Common Baghouse (S-4) shall not exhibit emissions with opacity greater than 7% *	40 CFR 60.672(a) Subpart OOO
S-2	Glaze lines 5 and 6	PM	The lesser of 1.91 lbs/hr or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
S-2	Glaze lines 5 and 6	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4-.01(1)

***The Glaze Lines are not subject to 40 CFR 60 Subpart OOO. However, since the baghouse (S-4) that controls emissions from Glaze Lines 3 and 4 is shared with other processes that are subject to Subpart OOO, the emissions from the baghouse (S-4) will be limited to the NSPS standard while the NSPS sources are operating.**

Provisos for Glazing Operations

Federally Enforceable Provisos	Regulations
<p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions". 2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". 3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]". 4. These sources are subject to the applicable requirements of 40 CFR 63 Subpart RRRRRR and 40 CFR 63 Subpart A. 	<p>Rule 335-3-4</p> <p>Rule 335-3-16-.03</p> <p>Rule 335-3-14-.04</p> <p>40 CFR 63 Subpart RRRRRR</p>
<p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Common Baghouse (S-4) shall not exhibit emissions of opacity greater than 7%. 2. The stack associated with baghouses (S-2) and (S-3) shall not emit particulate of an opacity of more than one 6-minute average greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. 3. Particulate matter emissions from common Baghouse (S-2) shall not exceed the lesser of 1.91 lbs/hr or the allowable set by 335-3-4-.04, "Process Weight". 4. Particulate matter emissions from common Baghouse (S-3) shall not exceed the lesser of 0.20 lbs/hr or the allowable set by 335-3-4-.04, "Process Weight". 5. Particulate matter emissions from common Baghouse (S-4) shall not exceed the lesser of 0.46 lbs/hr or 0.05 grams per dry standard cubic meter. 6. This system shall operate a maximum of 8,520 hours in any consecutive 12-month period. 	<p>40 CFR 60.672(a)</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.04 Rule 335-3-14-.04</p> <p>Rule 335-3-4-.04 Rule 335-3-14-.04</p> <p>Rule 335-3-14-.04 40 CFR 60.672(a)</p> <p>Rule 335-3-14-.04</p>

Federally Enforceable Provisos	Regulations
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stacks associated with common Baghouses (S-2, S-3, & S-4). If any visible emissions are noted, maintenance inspections and/or corrective action to reduce the visible emissions must be taken within two (2) hours.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
3. The facility shall conduct weekly visual inspections of the system ductwork of common Baghouses (S-2, S-3, & S-4) associated with Glazing Lines 1-6 for leaks.	40 CFR 63.11440(b)(2)(ii)(A)
4. The facility shall conduct inspections of the interior of the common Baghouses (S-2, S-3, & S-4) for structural integrity and to determine the condition of the fabric filters at least every 12 months.	40 CFR 63.11440(b)(2)(ii)(B)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of monthly and rolling 12-month total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.	Rule 335-3-16-.05(c)
2. Records of annual wet glaze usage shall be maintained.	40 CFR 63.11438(b)
3. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c)
4. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	Rule 335-3-16-.05(c)

Federally Enforceable Provisos**Regulations**

5. The Permittee shall submit a written report of exceedances of the stack opacity to the Department semi-annually.

Rule 335-3-16-.05(c)

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Summary Page for Firing Operations

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
KCSYS1 K1M KIC K3M K3C KCSYS2 K2MU K2ML K2CU K2CL	All Kilns		Only Natural Gas used as fuel	40 CFR 63.11438(a)(1)
KCSYS1 K1M KIC K3M K3C	Kilns 1 and 3	PM	The lesser of 0.67 lb/hr, each or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
KCSYS1 K1M KIC K3M K3C	Kilns 1 and 3	CO	7.07 lbs/hr, each	ADEM Admin. Code R. 335-3-14-.04
KCSYS1 K1M KIC K3M K3C	Kilns 1 and 3	NO _x	2.27 lbs/hr, each	ADEM Admin. Code R. 335-3-14-.04
KCSYS1 K1M KIC K3M K3C	Kilns 1 and 3	VOC	N/A	N/A
KCSYS1 K1M KIC K3M K3C	Kilns 1 and 3	SO ₂	N/A	N/A
KCSYS1	Kilns 1 and 3	HF	9.9 TPY (combined with KCSYS2)	40 CFR 63 Subpart RRRRRR
KCSYS1	Kilns 1 and 3	HCL	9.9 TPY (combined with KCSYS2)	40 CFR 63 Subpart RRRRRR
KCSYS1 K1M KIC K3M K3C	Kilns 1 and 3	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4-.01(1)

KCSYS2 K2MU K2ML K2CU K2CL K2P	Double Layer Kiln 2	PM	The lesser of 1.75 lbs/hr or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
KCSYS2 K2MU K2ML K2CU K2CL K2P	Double Layer Kiln 2	CO	24.82 lbs/hr	ADEM Admin. Code R. 335-3-14-.04
KCSYS2 K2MU K2ML K2CU K2CL K2P	Double Layer Kiln 2	NO _x	4.87 lbs/hr	ADEM Admin. Code R. 335-3-14-.04
KCSYS2 K2MU K2ML K2CU K2CL K2P	Double Layer Kiln 2	VOC	N/A	N/A
KCSYS2 K2MU K2ML K2CU K2CL K2P	Double Layer Kiln 2	SO ₂	N/A	N/A
KCSYS2	Double Layer Kiln 2	HF	9.9 TPY (combined with KCSYS1)	40 CFR 63 Subpart RRRRRR
KCSYS2	Double Layer Kiln 2	HCL	9.9 TPY (combined with KCSYS1)	40 CFR 63 Subpart RRRRRR
KCSYS2 K2MU K2ML K2CU K2CL K2P	Double Layer Kiln 2	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4-.01(1)

Provisos for Firing Operations

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions".	Rule 335-3-4
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
4. These sources are subject to the applicable requirements of 40 CFR 63 Subpart RRRRRR and 40 CFR 63 Subpart A.	40 CFR 63 Subpart RRRRRR
<u>Emission Standards</u>	
1. These units shall not emit particulate matter of an opacity greater than that allowed by General Proviso 29.	Rule 335-3-4-.01(1)
2. Particulate matter emissions from Kiln 1 (KCSYS1, K1M, & K1C) and Kiln 3 (KCSYS1, K3M, & K3C) shall not exceed the lesser of 0.67 lb/hr each or the allowable set by 335-3-4-.04, "Process Weight".	Rule 335-3-4-.04 Rule 335-3-14-.04
3. Particulate matter emissions from Kiln 2 (KCSYS2, K2MU, K2ML, K2CU, K2CL, & K2P) shall not exceed the lesser of 1.75 lbs/hr or the allowable set by 335-3-4-.04, "Process Weight".	Rule 335-3-4-.04 Rule 335-3-14-.04
4. Carbon Monoxide emissions from Kiln 1 (KCSYS1, K1M, & K1C) and Kiln 3 (KCSYS1, K3M, & K3C) shall not exceed 7.07 lbs/hr, each.	Rule 335-3-14-.04
5. Carbon Monoxide emissions from Kiln 2 (KCSYS2, K2MU, K2ML, K2CU, K2CL, & K2P) shall not exceed 24.82 lbs/hr.	Rule 335-3-14-.04
6. Nitrogen Oxide emissions from Kiln 1 (KCSYS1, K1M, & K1C) and Kiln 3 (KCSYS1, K3M, & K3C) shall not exceed 2.27 lbs/hr each.	Rule 335-3-14-.04
7. Nitrogen Oxide emissions from Kiln 2 (KCSYS2, K2MU, K2ML, K2CU, K2CL, & K2P) shall not exceed 4.87 lbs/hr.	Rule 335-3-14-.04

Federally Enforceable Provisos	Regulations
8. Hydrogen Fluoride emissions from the Kilns (KCSYS1 & KCSYS2) shall not exceed 9.9 TPY.	40 CFR 63 Subpart RRRRRR
9. Hydrogen Chloride emissions from the Kilns (KCSYS1 & KCSYS2) shall not exceed 9.9 TPY.	40 CFR 63 Subpart RRRRRR
10. Tile Production shall be limited to a maximum of 8,520 hours in any consecutive 12-month period. The Pre-kiln Dryer and Kilns may operate a maximum of 8,760 hours in any consecutive 12-month period.	Rule 335-3-14-.04
11. The kilns shall use natural gas, or equivalent, as fuel, except during periods of natural gas curtailment or supply interruption.	40 CFR 63.11438(a)(1)
12. The peak kiln temperature shall be maintained below 1540°C (2800°F).	40 CFR 63.11438(a)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
3. EPA Reference Method 7 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) shall be used in the determination of nitrogen oxide emissions.	Rule 335-3-1-.05
4. EPA Reference Method 10 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) shall be used in the determination of carbon monoxide emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. An observation of each emission point associated with these units will be accomplished at least weekly. If visible emissions are noted during the above-referenced visual checks, corrective action shall be initiated within two (2) hours to reduce the emissions.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been eliminated.	Rule 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
<p>3. A check of the peak firing temperature of the kilns shall be conducted daily. If the peak temperature exceeds 1540°C (2800°F), then corrective action shall be taken according to standard operating procedures.</p>	<p>40 CFR 63.11440(a)</p>
<p><u>Recordkeeping and Reporting Requirements</u></p>	
<p>1. Records of monthly and rolling 12-month total hours of tile production shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>2. The facility shall maintain records documenting kiln fuel usage.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>3. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>4. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>5. The Permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually.</p>	<p>Rule 335-3-16-.05(c)</p>

Summary Page for Railcar Unloading and Storage

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
S-2	Railcar Unloading and Storage	PM	The lesser of 1.91 lbs/hr or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
S-2	Railcar Unloading and Storage	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4- .01(1)

Provisos for Railcar Unloading and Storage

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-4, "Control of Particulate Emissions".	Rule 335-3-4
2. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
3. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
<u>Emission Standards</u>	
1. Particulate matter emissions from common Baghouse (S-2) shall not exceed the lesser of 1.91 lbs/hr or the allowable set by 335-3-4-.04, "Process Weight".	Rule 335-3-4-.04 Rule 335-3-14-.04
2. This system shall operate a maximum of 8,520 hours in any consecutive 12-month period.	Rule 335-3-14-.04
3. Common Baghouse (S-2) shall not discharge into the atmosphere particulates with an opacity greater than that designated as twenty percent (20%) opacity, as determined by a six (6) minute average. During one six (6) minute period in any sixty (60) minute period, no unit may discharge into the atmosphere particulate emissions of an opacity no greater than that designated as forty percent (40%) opacity.	Rule 335-3-4-.01
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stack associated with Common Baghouse (S-2). If any visible emissions are noted, maintenance inspections and/or corrective action to reduce the visible emissions must be taken within two (2) hours.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of monthly and rolling 12-month total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.	Rule 335-3-16-.05(c)
2. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c) Rule 335-3-16-.05(c)
3. All records shall be maintained for at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	
4. The Permittee shall submit a written report of exceedances of the stack opacity to the Department at least semi-annually.	Rule 335-3-16-.05(c)

Summary Page for Trims Production

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
CRD	Cut Roller Dryer	PM	The lesser of 0.013 lbs/hr or the allowable set by 335-3-4-.04	ADEM Admin. Code R. 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04(1)
CRD	Cut Roller Dryer	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4- .01(1)

Provisos for Trims Production

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits."	Rule 335-3-16-.03
2. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
<u>Emission Standards</u>	
1. Particulate matter emissions from the Cut Roller Dryer (CRD) shall not exceed the lesser of 0.013 lbs/hr or the allowable set by 335-3-4-.04, "Process Weight".	Rule 335-3-.04 Rule 335-3-14-.04
2. This system shall operate a maximum of 8,520 hours in any consecutive 12-month period.	Rule 335-3-14-.04
3. A water stream must be directed at the cutting blade of the wet saw at all times when in use.	Rule 335-3-16-.05(c)
4. This process is limited to use natural gas to fire the burners.	Rule 335-3-14-.04
5. This unit shall not emit particulate of an opacity greater than that allowed by General Proviso 29.	Rule 335-3-4-.01(1)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stack associated with the Cut Roller Dryer (CRD) and the Profile Dryer (PD). If any visible emissions are noted, maintenance inspections and/or corrective action to reduce the visible emissions must be taken within two (2) hours.	Rule 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. The facility shall maintain records documenting daily natural gas usage.	Rule 335-3-14-.04
2. Records of monthly and rolling 12-month total hours of operation shall be maintained in a form suitable for inspection for a period of at least five (5) years following the date of the generation of the records.	Rule 335-3-16-.05(c)
3. Source observations, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c)
4. All records shall be maintained for at least five years from the date of generation and shall be made available to the permitting authority upon request.	Rule 335-3-16-.05(c)
5. The Permittee shall submit a written report of exceedances of the stack opacity to the Department at least semi-annually.	Rule 335-3-16-.05(c)

Summary Page for 30 TPH Tile Crusher with Diesel Generator

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8520 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
PC-1	30 TPH Tile Crusher with Generator	PM	(See General Proviso 31)	ADEM Admin. Code R. 335-3-4-.04(1)
PC-1	30 TPH Tile Crusher with Generator	Opacity	(See General Proviso 29)	ADEM Admin. Code. R. 335-3-4-.01(1)
PC-1	30 TPH Tile Crusher with Generator	SO ₂	(See General Proviso 30)	ADEM Admin. Code R. 335-3-5-.01(1)
PC-1	30 TPH Tile Crusher with Generator	CO	N/A	N/A
PC-1	30 TPH Tile Crusher with Generator	NO _x	N/A	N/A
PC-1	30 TPH Tile Crusher with Generator	VOC	N/A	N/A

Provisos for 30 TPH Tile Crusher with Diesel Generator

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>Major Source Operating Permits</i> .	Rule 335-3-16-.03
2. This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), <i>Control of Particulate Emissions – Visible Emissions</i> as described in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), <i>Control of Particulate Emissions for Process Industries – General</i> .	Rule 335-3-4-.04(1)
4. This unit has an enforceable limit in place in order to avoid being subject to the applicable provisions of ADEM Admin. Code r. 335-3-14-.04. <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> .	Rule 335-3-14-.04 [Anti-PSD]
<u>Emission Standards</u>	
1. Particulate emissions from this unit shall not exceed the allowable set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1)
2. This unit shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%.	Rule 335-3-4-.01(1)
3. The diesel generator shall not emit sulfur oxides, measured as sulfur dioxide, in excess of 4.0 lb/MMBtu of heat input.	Rule 335-3-5-.01(1)
4. This unit shall operate a maximum of 1,000 hours in any consecutive 12-month period.	Rule 335-3-14-.04 [Anti-PSD]
5. Wet suppression shall be utilized to minimize fugitive emissions while this unit is operating.	Rule 335-3-4-.02
<u>Compliance and Performance Test Methods and Procedures</u>	
1. If testing is required, particulate matter (PM) emissions shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 5.	Rule 335-3-1-.05
2. If testing is required, visible emissions (VE) from this process shall be measured in accordance with 40 CFR 60, Appendix A, Method 9.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
<u>Emission Monitoring</u> N/A	N/A
<u>Recordkeeping and Reporting Requirements</u> 1. Records of the monthly and rolling 12-month total of hours of operation of this unit shall be kept on file for at least 5 years.	Rule 335-3-16-.05(c)

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APPENDIX

40 CFR 64

Compliance Assurance Monitoring (CAM) Requirements

CAM Plan for Wet Venturri Scrubber at Emission Point SD-1

	Parameter No.1	Parameter No. 2
I. <u>Indicator</u>	Visible Emissions (VE)	Pressure Differential (ΔP)
A. Measurement Approach	<ol style="list-style-type: none"> 1. Trained and qualified personnel shall perform a weekly VE inspection. If visible emissions are observed, a visible emissions observation (VEO) shall be conducted within 30 minutes in accordance with 40 CFR 60, Appendix A, Method 9. The Method 9 observation shall be conducted for a minimum of twelve (12) minutes. 	<ol style="list-style-type: none"> 1. A properly maintained and operated device shall be utilized to measure the pressure loss across the unit daily. The device shall be located at eye level and be easily accessible for inspections by Air Division and plant personnel.
II. <u>Indicator Range</u>	<ol style="list-style-type: none"> 1. While the unit is in operation, an excursion is defined as an average opacity during the Method 9 opacity reading which exceeds twenty (20%) percent. 2. Excursions trigger an inspection, corrective action, and a reporting requirement. 3. Corrective action must be initiated within two (2) hours following an excursion. 	<ol style="list-style-type: none"> 1. While the unit is operating, an excursion is defined as a pressure loss of less than 2.0 inches H₂O. 2. Excursions trigger an inspection, corrective action, and a reporting requirement. 3. When a pressure loss excursion occurs, corrective action shall be initiated within two (2) hours to identify and correct the problem.

III. <u>Performance Criteria</u>		
A. Data Representativeness	1. Inspections shall be made at the stack. Visual observations performed at emission points (exhaust stack SD-1).	1. A pressure loss reading is the measurement of the pressure differential between inlet and outlet of the baghouse. The minimum accuracy of the device is ± 0.5 in. H ₂ O.
B. Verification of Operating Status	N/A	N/A
a. QA/QC Practices and Criteria	1. Trained and qualified personnel shall perform the visible inspection.	1. The differential pressure gauge shall be calibrated annually.
C. Monitoring Frequency	1. Visible emissions observation shall be made weekly while each unit is in operation.	1. Pressure loss shall be measured daily while the unit is in operation.
D. Data Collection Procedures	1. Manual log entries based on weekly VE observation. Observation will be recorded along with the date, time, emission point designation, name of the observer, if VE's are observed. If VE's are observed, a Method 9 opacity reading shall be conducted. In addition to the information required by Method 9 the expiration date of the evaluator's certification shall be recorded and any corrective actions taken shall be recorded.	1. Manual log entries based on gauge readings. Pressure loss will be recorded daily along with the date, time, and name of the observer.
E. Averaging Period	1. VE observations are instantaneous. If a Method 9 is required, then observations are a six (6) minute average.	1. Pressure loss readings are instantaneous.

CAM Plan for Dust Collector at Emission Point SD-2

	Parameter No.1	Parameter No. 2
I. <u>Indicator</u>	Visible Emissions (VE)	Pressure Differential (ΔP)
A. Measurement Approach	<ol style="list-style-type: none"> 1. Trained and qualified personnel shall perform a weekly VE inspection. If visible emissions are observed, a visible emissions observation (VEO) shall be conducted within 30 minutes in accordance with 40 CFR 60, Appendix A, Method 9. The Method 9 observation shall be conducted for a minimum of twelve (12) minutes. 	<ol style="list-style-type: none"> 1. A properly maintained and operated device shall be utilized to measure ΔP across the unit daily. The device shall be located at eye level and be easily accessible for inspections by Air Division and plant personnel.
II. <u>Indicator Range</u>	<ol style="list-style-type: none"> 1. While the unit is operating, an excursion is defined as an average opacity during the Method 9 opacity reading which exceeds ten (10%) percent. 2. Excursions trigger an inspection, corrective action, and a reporting requirement. 3. Corrective action must be initiated within two (2) hours following an excursion. 	<ol style="list-style-type: none"> 1. While the unit is operating, an excursion is defined as a ΔP of less than 2.0 inches H₂O. or greater than 8.0 inches H₂O. 2. Excursions trigger an inspection, corrective action, and a reporting requirement. 3. When a pressure drop excursion occurs, corrective action shall be initiated within two (2) hours to identify and correct the problem.

III. <u>Performance Criteria</u>		
A. Data Representativeness	1. Inspections shall be made at the stack. Visual observations performed at emission points (exhaust stack SD-2).	1. ΔP on gauge is the measurement of the pressure differential between inlet and outlet of the baghouse. The minimum accuracy of the device is ± 0.5 in. H ₂ O.
B. Verification of Operating Status	N/A	N/A
a. QA/QC Practices and Criteria	1. Trained and qualified personnel shall perform the visible inspection.	1. The differential pressure gauge shall be calibrated annually. Pressure taps checked weekly for plugging.
C. Monitoring Frequency	1. Visible emissions inspections shall be made weekly while the unit is in operation.	1. ΔP is measured daily while the unit is in operation.
D. Data Collection Procedures	1. Manual log entries based on weekly VE inspection. Observation will be recorded along with the date, time, emission point designation, name of the observer, if VE's are observed. If VE's are observed, a Method 9 opacity reading shall be conducted. In addition to the information required by Method 9 the expiration date of the evaluator's certification shall be recorded and any corrective actions taken shall be recorded.	1. Manual log entries based on gauge readings. ΔP will be recorded daily along with the date, time, and name of the observer.
E. Averaging Period	1. VE observations are instantaneous. If a Method 9 is required, then observations are a six (6) minute average.	1. ΔP readings are instantaneous.